Managing and Reporting Process Improvement Activities

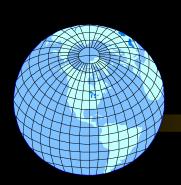
Earned Value

Earned Value Why Do It?

- Sound fiscal practice:
 - Project Management (e.g., Performance Plan tasks)
 - Process Management (e.g., One Book processes)
- Precursor to Activity Based
 Costing (ABC) at operating level

Why Use Earned Value?

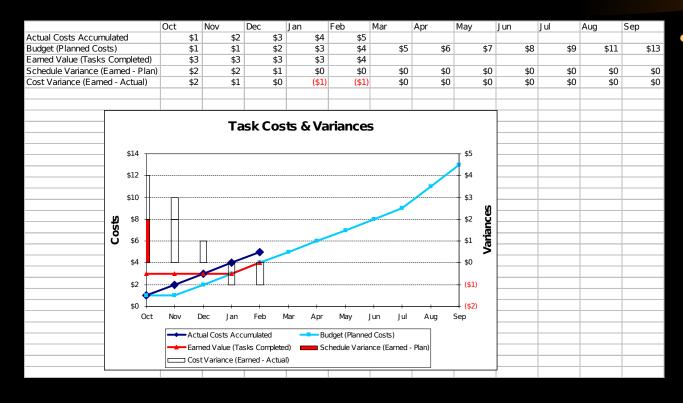
- Can use methodology for "projects" and "process improvements"
 - Promotes right thinking vice old fiscal approach where victory determined if you spent what you budgeted
 - Has performance based approach to analysis (cost and schedule)



Where in the World is Earned Value?

- Performance is measured by both "effectiveness" and "efficiency"
- Efficiency of our functional processes is measured by the "unit cost" of the products they produce *Not Here*
- Effectiveness and Efficiency of our process improvement efforts are measured by what is accomplished at what cost *Here*

In the End We Will Have One of These



And will be able to correctly determine and interpret cost and schedule variances

Earned Value The Essential Data

- What are the TIME PHASED PLANNED costs?
- What are the ACTUAL costs?
- What VALUE did we EARN?

Earned Value The Essential Information

- Are we on SCHEDULE?
 - If not, how come?
 - What's to be done to correct the course?
- Are we on COST?
 - If not, how come?
 - What's to be done to correct the course?

Earned Value How Is It Done?

Two Examples

Classic "project"

Performance Plan "Investment" task

Process Improvement

Performance Plan "Performance Improvement" task

Example - Investment Type

- Task "Publish policy memorandum on ..."
 - Writing = 15 hours (x AAR/2088)
 - Coordinating = 150 hours (x AAR/2088)
 - Formatting for and posting to HomePage
 - = 10 hours (x AAR/2088)

Investment Task - The Plan

- Step 1 Define/list the sub-tasks
 - Tool MS Project
 - Critical to effective Earned Value -How big or small?
 - Small enough so you can "visualize" and "manage" but
 - Not so small that you're incapable of tracking a task by increments i.e., no increments left

Investment Task - The Plan

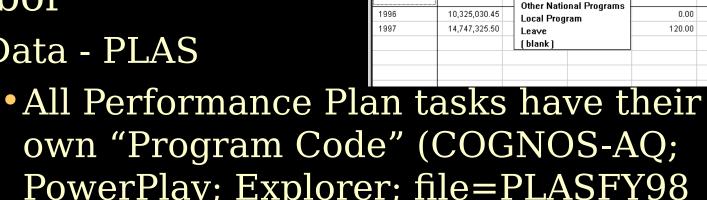
- Step 2 Define task properties
 - Duration
 - How long should it take?
 - Start
 - Stop
 - Dependencies
 - Have to complete another sub-task before this one starts?
 - Have to start or stop at same time as another?

Investment Task - The Plan

- Step 3 Define task resources
 - Labor
 - Costs Body count x AAR/your chosen time period for managing the task
 - Non-labor
 - Costs Standard to make it e
 - -Travel \$500 per trip
 - -Per Diem \$100 per day
 - -All others (e.g., contracted stuff, PCS, material) actual

Investment Task - Actuals

- Labor
 - Data PLAS



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Programs Military/Civilian Work/Leave Hours

ACAT 1 Programs

Performance Plan

PowerPlay - [PPlay1 of DCMCPLAS (Explorer)] File Edit View Explore Format Tools Window Help

Fiscal Year | DCMC | Processes

- PowerPlay; Explorer; file=PLASFY98 or separate process files)
- AAR x hours from PLAS
- No overhead allocation

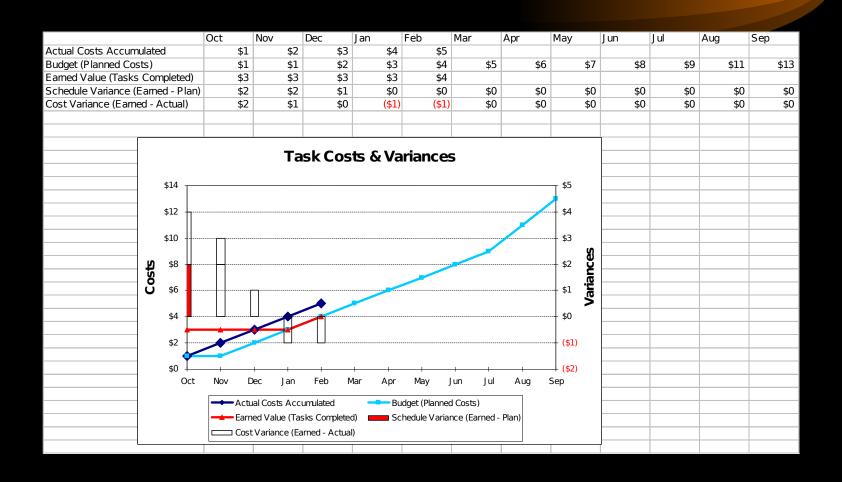
Investment Task - Actuals

- Non-Labor
 - Data Your own personal accounting system
 - Take actuals at their planned "unit" cost
 - Variances Will result from usage differences only

Investment Task - Earned Value

- Task Completion
 - All or nothing Nyet
 - Percent of completion Yes
- Therefore:
 - Completion of HALF/50% of the WRITING *earns* you 7.5 hours x \$30
 - = \$225 of Earned Value
 - Working on WRITING for 7.5 hours does NOT (I.E., earns you nothing)

Let's Fill It Out



Example - Performance Improvement Type

- Task "Increase On-Time...by 10%"
 - Designing = 100 hours (x AAR/2088)
 - Prototyping/Testing = 500 hours (x AAR/2088)
 - Implementing across Command = 6000 hours (x AAR/2088) e.g.
 - "Enabling" material development
 - Training
 - Software installation/system modification

Performance Improvement Task - The

- Step 1 Define/list the sub-tasks
 - -Tool MS Project
 - The tasks in your project are those things you are going to do to affect an improvement in your metrics performance
 - •Are DIRECTLY linked to your process drivers
 - •If not...

Performance Improvement

- The Plan
- Step 2 Define tasks and properties
 - Policy Development
 - Duration 3 months
 - Resources
 - -Labor 5 man months
 - -Non-Labor Travel (\$2000)

Performance Improvement

- The Plan
- Step 2 Define tasks and properties
 - Prototype
 - Duration 4 months
 - Resources
 - -Labor 28 man months
 - -Non-Labor Travel, contract stuff (\$5000)

Performance Improvement

- The Plan
- Step 2 Define tasks and properties (continued)
 - Deployment of the new process
 - Duration Phased over 3 months
 - Resources
 - -Labor 400 man days
 - -Non-Labor Stuff (\$50,000)

Performance Improvement - The Plan

Now's
the time
to save
the
BASELI
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Performance Improvement Task

PowerPlay - [PPlay1 of DCMCPLAS (Explorer)]

File Edit View Explore Format Tools Window Help

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Fiscal Year | DCMC | Processes |

ACAT 1 Programs

Performance Plan Other National Programs

Local Program

Leave (blank)

Programs Military/Civilian Work/Leave Hours

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- Labor
 - Data PLAS
 - All Performance Plan tasks have their own "Program Code" (COGNOS-AQ; PowerPlay; Explorer; file=PLASFY98 or separate process files)

1997

- AAR x hours from PLAS
- No overhead allocation

Performance Improvement Task - Actuals

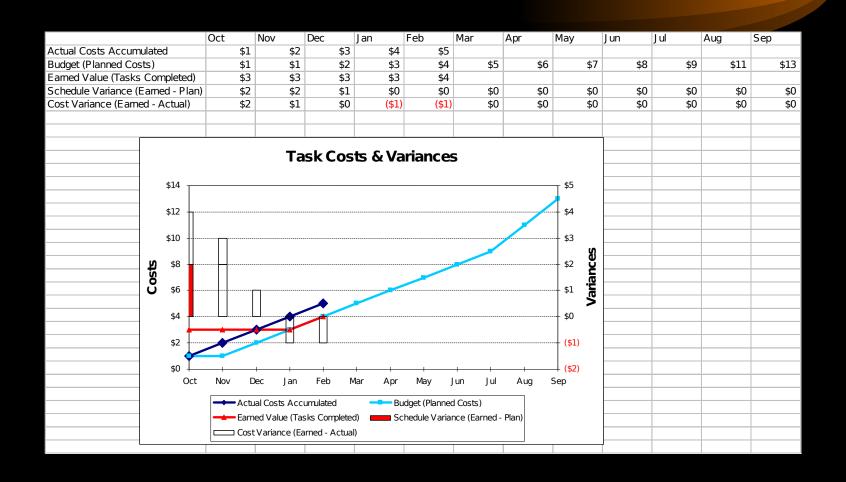
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Performance Improvement Task

- Earned Value

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Let's Fill It Out - Again



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